

DERWENT-ACC-NO: 1979-41535B

DERWENT-WEEK: 197922

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TITLE: Aq. coating dispersions with good heat sealing and
antiblocking - comprise copolymer of ethylene!
and
2,3-unsatd. carboxylic acid partly in salt
form, and wax

PATENT-ASSIGNEE: ASAHI DOW LTD[ASAF]

PRIORITY-DATA: 1977JP-0116136 (September 29, 1977)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE
PAGES MAIN-IPC		
JP 54050531 A	April 20, 1979	N/A
000 N/A		

INT-CL (IPC): C09D003/74, C09D005/00

ABSTRACTED-PUB-NO: JP 54050531A

BASIC-ABSTRACT:

Aq. coating dispersion is obtd. by dispersing (1) 100 pts. wt. of the copolymers comprising 99-85 mole % of ethylene and 1-15 mole % of alpha, beta-ethylene unsatd. carboxylic acids of which $\geq 10\%$ has been neutralised with metal ions and/or ammonium ion and (2) 0.5-5.0 pts. wt. of waxes in a solid content of 20-60 wt.%.

The dispersions have excellent heat-sealing property and blocking resistance.

The alpha, beta-ethylene unsatd. carboxylic acids include, e.g. acrylic acid, fumaric acid, itaconic acid, maleic acid. The metals for neutralisation include, e.g. Na, K and Li. Waxes comprising mainly higher fatty acid esters such as polyethylene wax, carnauba wax, etc. are pref. The aq.

codispersions
are obtd. e.g. by adding the aq. dispersion of the copolymers to wax
emulsions,
and stirring the mixts., or kneading. Components (1) and (2)
previously in
kneaders, etc. and forming the aq. dispersions of the mixt.

The present dispersions are pref. used for coating of cellophane,
aluminum
foil, and they are applied to synthetic films or sheets (e.g. nylon,
polyvinyl
chloride, polypropylene) in order to impart oil resistance, heat-
sealing
property and adherence.

TITLE-TERMS: AQUEOUS COATING DISPERSE HEAT SEAL ANTIBLOCKING COMPRISE
COPOLYMER

POLYETHYLENE UNSATURATED CARBOXYLIC ACID SALT FORM WAX

DERWENT-CLASS: A17 A60 A82 G02

CPI-CODES: A04-F04; A04-F05; A04-G08; A12-B04D; A12-B04F; A12-B07;
G02-A02C;

G02-A02D; G02-A02D3;

POLYMER-MULTIPUNCH-CODES-AND-KEY-SERIALS:

Key Serials: 0037 0041 0044 0047 0209 0218 0231 0239 0241 0248 0759
1283 1982
1989 2001 2022 2335 2375 2430 2433 2437 2439 2504 2511.2513 2522 2570
2608 2656
2659 2718 2726 2728 0411 1424 1431 1417
Multipunch Codes: 011 034 04- 040 041 046 047 050 06- 061 062 063 074
075 076
09& 09- 10& 141 230 231 24- 250 252 253 259 27& 323 392 397 423 431
435 436 443
47& 475 477 502 532 533 534 541 548 597 600 688 724 011 034 04- 040
041 046 047
050 06- 061 062 063 075 09& 09- 10& 104 107 141 155 157 230 231 24-
250 252 253
259 27& 323 392 397 423 431 435 436 443 47& 475 477 502 532 533 534
541 548 597
600 688 724 011 034 04- 040 041 046 047 050 06- 061 062 063 075 09&
09- 10& 104
116 141 155 157 230 231 24- 250 252 253 259 27& 323 392 397 423 431
435 436 443
47& 475 477 502 532 533 534 541 548 597 600 688 724 011 034 04- 040
041 046 047
050 06- 061 062 063 075 09& 09- 10& 104 105 141 155 157 230 231 24-
250 252 253